

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as indicated below. Underlines indicate insertions and double brackets indicate deletions.

Amend the paragraph beginning on page 35, line 20 of the specification as filed as follows:

Fig. 10 ~~[[11]]~~ is a simplified block diagram of an electronic program controlled switch which may be used as anyone of the SSP type switching offices in the systems of Fig. 4 or 8. As illustrated, the switch includes a number of different types of modules. In particular, the illustrated switch includes interface modules 551 ~~[[651]]~~ (only two of which are shown), a communications module 653 and an administrative module 555 ~~[[655]]~~.

Amend the paragraph beginning on page 36, line 1 of the specification as filed as follows:

The interface modules 551 ~~[[651]]~~ each include a number of interface units 0 to n. The interface units terminate lines from subscribers' stations, trunks, T1 carrier facilities, etc. Where the interfaced circuit is analog, for example a subscriber loop, the interface unit will provide analog to digital conversion and digital to analog conversion. The interface modules for the analog lines also include dial pulse detectors and dual tone multifrequency (DTMF) detectors. Alternatively, the lines or trunks may use digital protocols such as T1 or ISDN. Each interface module 551 ~~[[651]]~~ also includes a digital service unit (not shown) which is used to generate call progress tones.

Amend the paragraph beginning on page 36, line 14 of the specification as filed as follows:

Each interface module 551 ~~[[651]]~~ includes, in addition to the noted interface units, a duplex microprocessor based module controller and a duplex time slot interchange, referred to as a TSI in the drawing. Digital words

representative of voice information are transferred in two directions between interface units via the time slot interchange (intramodule call connections) or transmitted in two directions through the network control and timing links to the time multiplexed switch 557 ^{[[657]]} and thence to another interface module (intermodule call connection).

Amend the paragraph beginning on page 36, line 24 of the specification as filed as follows:

The communication module 653 includes the time multiplexed switch 557 ^{[[657]]} and a message switch 559 ^{[[659]]}. The time multiplexed switch 557 ^{[[657]]} provides time division transfer of digital voice data packets between voice channels of the interface modules 551 ^{[[651]]} and transfers data messages between the interface modules. The message switch 559 ^{[[659]]} interfaces the administrative module 555 ^{[[655]]} to the time multiplexed switch 557 ^{[[657]]}, so as to provide a route through the time multiplexed switch permitting two-way transfer of control related messages between the interface modules 551 ^{[[651]]} and the administrative module 555 ^{[[655]]}. In addition, the message switch 559 ^{[[659]]} terminates special data links, for example a link for receiving a synchronization carrier used to maintain digital synchronism.

Amend the paragraph beginning on page 37, line 12 of the specification as filed as follows:

The administrative module 555 ^{[[655]]} includes an administrative module processor 561 ^{[[661]]}, which is a computer equipped with disc storage 563 ^{[[663]]}, for overall control of operations of the switching office. The administrative module processor 561 ^{[[661]]} communicates with the interface modules 551 ^{[[651]]} through the communication module 555 ^{[[655]]}. The administrative module 555 ^{[[655]]} also includes one or more input/output (I/O) processors 565 ^{[[665]]} providing interfaces to terminal devices for technicians such as shown at 566 ^{[[666]]} in the drawing and data links to operations systems for traffic, billing, maintenance data, etc. A CCIS terminal 573 ^{[[673]]} and an

associated data unit 571 [[671]] provide a signaling link between the administrative module processor 561 [[661]] and an STP of the SS7 Signaling network, for facilitating call processing signal communications with other central offices (COs) and with one or more of the SCPs and/or the ISCP [[617]].

Amend the paragraph beginning on page 38, line 3 of the specification as filed as follows:

As illustrated in Fig. 10 [[11]], the administrative module 555 [[655]] also includes a call store 567 [[667]] and a program store 569 [[669]]. Although shown as separate elements for convenience, these are typically implemented as memory elements within the computer serving as the administrative module processor 561 [[661]]. For each call in progress, the call store 567 [[667]] stores translation information retrieved from disc storage 563 [[663]] together with routing information and any temporary information needed for processing the call. For example, for a switch based Centrex type service, the call store 567 [[667]] would receive and store extension number translation information for the business customer corresponding to an off-hook line initiating a call. The program store 569 [[669]] stores program instructions which direct operations of the computer serving as the administrative module processor.

Amend the paragraph beginning on page 38, line 19 of the specification as filed as follows:

Of particular note, the translation data in the disc storage 563 [[663]] includes translation information needed to address messages for transmission through the signaling network. In particular, when the switch needs to send a message through the SS7 network to a particular node, the data from the disc storage 563 [[663]] provides the global title and/or point code for the message destination.